



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

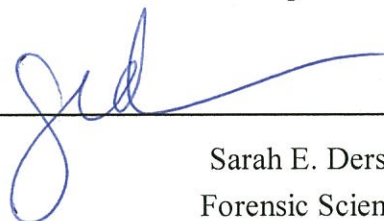
INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010540
CERTIFICATION DATE: March 24, 2014
DATE RECERTIFICATION DUE: September 20, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

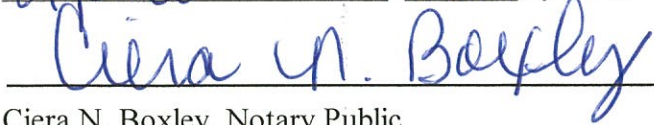
0.020 ± 0.004 g/210 L	0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of $k=3$. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.


Sarah E. Dersch
Forensic Scientist

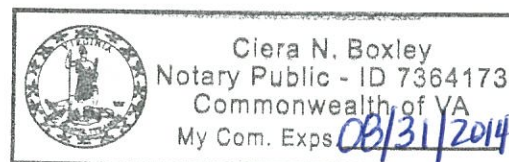
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 1st day of April, 2014 by Sarah E. Dersch


Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

msk



**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 3/24/2014**

HMS
Sed

Instrument Serial Number: 010540

As of 24-Mar-14

Maintenance Date	Certification Date	Technician Initials	Remarks
24-Mar-14	24-Mar-14	HMS (18910)	CERTIFIED
23-Sep-13	23-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
23-Apr-13	23-Apr-13	DBH (21250)	CERTIFIED.
15-Nov-12	15-Nov-12	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
05-Jun-12	05-Jun-12	TLN (25387)	CERTIFIED. REPLACED DRY GAS STANDARD.
13-Dec-11	13-Dec-11	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD
17-Oct-11	23-Jun-11	DBH (21250)	REPLACED PRINTER RIBBON
23-Jun-11	23-Jun-11	DBH (21250)	REPLACED PRINTER, CERTIFIED
29-Dec-10	29-Dec-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
11-Aug-10	11-Aug-10	DBH (21250)	CERTIFIED
16-Feb-10	16-Feb-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
25-Aug-09	25-Aug-09	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED.
11-Mar-09	11-Mar-09	DBH (21250)	CERTIFIED.
04-Mar-09	04-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE. CERTIFIED.
08-Dec-08	08-Dec-08	HMS (18910)	CALIBRATED, CERTIFIED AND ACCEPTED.

INTOX EC/IR II

Quality Assurance Worksheet

Instrument Serial Number 010540 Worksheet Start Date 3/24/2014

Location DFS-Central

Address

DFS Technician Heather Stanton License No. 18910

☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) 764 Reference Barometer (mm HG) 765

Reference Barometer(RB)Serial # 009113 RB Calibration Due 5/8/2014

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.302	0.292	0.311	0.307	0.307	0.307
Precision		sample min	sample max			
0		0.307	0.307			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.101	0.097	0.104	0.101	0.101	0.101
Precision		sample min	sample max			
0		0.101	0.101			

Dry gas standard Lot No. (with tank no.)

AG211704-15

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:

Notes:

Instrument Serial Number

010540

Certification Date

3/24/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.254
0.250	0.251	0.243	0.258	Sample 2	0.254
Precision		sample min	sample max	Sample 3	0.253
0.001		0.253	0.254		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.152
0.150	0.151	0.146	0.155	Sample 2	0.152
Precision		sample min	sample max	Sample 3	0.152
0		0.152	0.152		

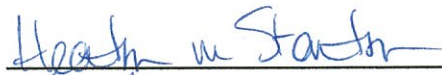
Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.081
0.080	0.080	0.077	0.083	Sample 2	0.081
Precision		sample min	sample max	Sample 3	0.081
0		0.081	0.081		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

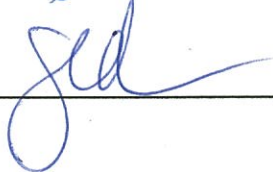
DFS Technician



Date

3/24/14

Issuing Analyst


msx

Date

3/28/14

HMS
nd

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010540 Test Number: 1744
Test Date: 03/24/2014 Test Time: 10:35 EDT

Technician Initials: HMS

Dry Gas Target: 0.251

Lot Number: 07713250I4-02 Exp Date: 05/01/2015

Tank Pressure: 492 psi Barometric Pressure: 764 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:35
BLK	0.000	10:36
CHK	0.254	10:37
BLK	0.000	10:38
CHK	0.254	10:39
BLK	0.000	10:41
CHK	0.253	10:42
BLK	0.000	10:44

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
ad

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010540 Test Number: 1745
Test Date: 03/24/2014 Test Time: 10:45 EDT

Technician Initials: *HMS*

Dry Gas Target: 0.151

Lot Number: 0651215014-04 Exp Date: 04/01/2014

Tank Pressure: 585 psi Barometric Pressure: 764 mmHg
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:46
BLK	0.000	10:47
CHK	0.152	10:47
BLK	0.000	10:49
CHK	0.152	10:50
BLK	0.000	10:51
CHK	0.152	10:52
BLK	0.000	10:54

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
Sed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010540 Test Number: 1746
Test Date: 03/24/2014 Test Time: 10:55 EDT

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 115 psi Barometric Pressure: 764 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:55
BLK	0.000	10:56
CHK	0.081	10:57
BLK	0.000	10:58
CHK	0.081	10:59
BLK	0.000	11:00
CHK	0.081	11:01
BLK	0.000	11:03

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
Jel

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010540 Test Number: 1747
Test Date: 03/24/2014 Test Time: 11:04 EDT

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0771302011-01 Exp Date: 05/01/2015

Tank Pressure: 1017 psi Barometric Pressure: 764 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:04
BLK	0.000	11:05
CHK	0.019	11:06
BLK	0.000	11:07
CHK	0.019	11:08
BLK	0.000	11:09
CHK	0.019	11:10
BLK	0.000	11:11

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS
Jed

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010540 Test Number: 1748

Test Date: 03/24/2014 Test Time: 11:16 EDT

Dry Gas Target: 0.302

Lot Number: AG322702-05 Exp Date: 08/15/2015

Tank Pressure: 139 psi Barometric Pressure: 764 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:17
CHK	0.307	11:17
BLK	0.000	11:19
CHK	0.307	11:20
BLK	0.000	11:22
CHK	0.307	11:23

Test Status: *Success*

Calibration CRC: 4C9A34F3

LMS
Sed

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010540 Test Number: 1749

Test Date: 03/24/2014 Test Time: 11:28 EDT

Dry Gas Target: 0.101

Lot Number: AG211702-15 Exp Date: 04/26/2014

Tank Pressure: 360 psi Barometric Pressure: 764 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:29
CHK	0.101	11:29
BLK	0.000	11:31
CHK	0.101	11:32
BLK	0.000	11:33
CHK	0.101	11:34

Test Status: *Success*

Calibration CRC: 4C9A34F3

ENDS
jed

INSTRUMENT, TEST,

DFS

STANTON, HEATHER, M

DFS Central Lab

18910

10/01/2014

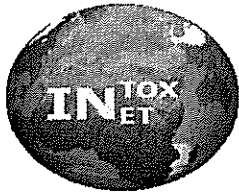
03/24/2014

010540

03/24/2014

11:45 EDT

0.00



IntoxNet MIS Report

Report Generated 24 Mar 2014 at 11:51

Handwritten initials/signature

Test Results

Instrument Serial Number 010540

Test # 001750 Subject Test

Test Location 1 Department of
Test Date 24 Mar 2014

Test Location 2 Forensic Science
Test Time 11:39
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910
Subject's Last Name INSTRUMENT
Subject's Middle Initial

Effective Date 10/01/2012 Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 24 Mar 2014 End Time 11:47 Result Time 11:45 Result Date 24 Mar 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:39

Data Type BLK

Sample Value 0.000

Sample Time 11:40

Data Type CHK

Sample Value 0.101

Sample Time 11:41

Data Type BLK

Sample Value 0.000

Sample Time 11:42

Data Type SUBJ

Sample Value 0.000

Sample Time 11:43

Data Type BLK

Sample Value 0.000

Sample Time 11:44

Data Type SUBJ

Sample Value 0.000

Sample Time 11:45

Data Type BLK

Sample Value 0.000

Sample Time 11:46

Standard Type Dry Gas Std

Standard Value 0.101

Standard Lot Number AG211702-15

Standard Expiration Date 04/26/2014

Tank Pressure 350

Barometric Pressure 764 mmHg

Blow Sample Number 1 Blow Duration 3.24 sec

Blow Volume 1767 cc End-of-Blow Time 11:43

Blow Sample Number 2 Blow Duration 3.09 sec

Blow Volume 1770 cc End-of-Blow Time 11:45

Tamper Evident Stamp 607076de

Test Status Code 0

Test Status Success